

217/782-2113

CONSTRUCTION PERMIT

PERMITTEE

Lafarge Midwest, Inc.
Attn: Ron Ryan
2500 Portland Road
Grand Chain, Illinois 62941

Application No.: 03080024
Applicant's Designation:
Subject: Raw Mill Furnaces
Date Issued:

I.D. No.: 127855AAA
Date Received: August 8, 2003

Location: 2500 Portland Road, Grand Chain

Permit is hereby granted to the above-designated Permittee to CONSTRUCT emission source(s) and/or air pollution control equipment consisting of alterations to the existing raw mills (Raw Mill 1 and 2) to allow utilization of on-specification used oil as part of the fuel supply and two oil storage tanks, as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1.0 Raw Mill Alterations

1.1 Description

The alterations to the raw mills would allow the utilization of on-specification oil as part of the fuel supply for the raw mills and include installation of two oil storage tanks. The existing raw mills are currently using natural gas as fuel and use of on-specification used oil will in turn reduce the natural gas usage.

1.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description
01	Existing raw mills and control system
02	Two 25,000-Gallon Storage Tanks

1.3 Applicability Provisions and Applicable Regulations

- a. This permit is issued based on the source being a major source of hazardous air pollutants for purpose of 40 CFR Part 63 so that the source is subject to a National Emission Standard for Hazardous Air Pollutants (NESHAP) from the Portland Cement Manufacturing Industry, 40 CFR 63, Subpart A and LLL. The Illinois EPA is administering NESHAP in Illinois on behalf of the United States EPA under a delegation agreement.

- b. Pursuant to 40 CFR 63.1347, gases shall not be discharged from the raw mills that exhibit opacity greater than 10 percent.

1.4 Non-Applicability of Regulations of Concern

- a. As a consequence of the limits in Condition 1.6, this permit is issued based on the alteration of raw mills not constituting a major modification subject to Prevention of Significant Deterioration (PDS), 40 CFR 52.21.
- b. Pursuant to 40 CFR 63.1356, the New Source Performance Standard (NSPS) for Portland Cement Plants, 40 CFR 60, Subpart F is not applicable since the source is subject to the NESHAP, 40 CFR 63, Subpart LLL.

1.5 Operating Limits

- a. Natural gas or on specification used oil may be the only fuel fired in the raw mill furnaces.
- b. The sulfur content of the on-specification used oil shall not exceed 1.0 percent weight.
- c. On-specification used oil usage for raw mills shall not exceed 300,000 gallons/month and 1,660,000 gallons per year.
- d. The Permittee shall prepare a written operations and maintenance plan pursuant to 40 CFR 63.1350. The plan shall be submitted for review and approval as part of the application for Clean Air Act Permit Program (CAAPP) permit and shall include the information required in 40 CFR 63.1350(a) (1) through (10).
- e. At all times the Permittee shall to the extent practicable, maintain and operate the raw mills including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions.

1.6 Emission Limitations

- a. Emissions of two raw mills combined using on specification oil shall not exceed the following limits:

<u>Pollutant</u>	<u>Emissions</u>	
	<u>(Lbs/Hour)</u>	<u>(Tons/Year)</u>
NO _x	10.9	16.60
CO	2.5	4.15
SO ₂	77.1	39.00
PM	0.01	0.01
VOM	0.4	0.50

These limits are based on maximum on specification oil usage, maximum sulfur content of fuel oil (1.0 percent) and standard emission factors for distillate fuel oil as provided in the permit application. Compliance with annual limit shall be determined from a running total of 12 months of data.

- b. This permit is issued based on negligible emissions of VOM from the storage tanks. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 tons/year.

1.7 Testing Requirements

- a. The Permittee shall measure opacity using the applicable test method and procedures specified in 40 CFR 63.7 and 63.1349(b) on the schedule set forth by the NESHAP.

1.8 Monitoring Requirements

- a. The Permittee shall fulfill all applicable monitoring requirements of the 40 CFR 63.1350 for each raw mill.
- b. The Permittee shall monitor the sulfur and nitrogen content of the fuel being fired in the raw mill furnace based on shipment fuel sampling, the initial performance test shall consist of sampling and analyzing the oil in the initial tank of oil to be fired in the raw mill furnace. There after the Permittee shall sample the oil in the fuel tank after each new shipment of oil is received.

1.9 Recordkeeping Requirements

- a. The Permittee shall maintain a file of the sulfur content of the fuels being fired in the raw mill furnaces.
- b. The Permittee shall maintain records of fuel consumed in raw mill furnaces (gallons/month).
- c. Monthly emissions of NO_x, CO and SO₂ from each of the raw mill furnaces. Emissions shall be calculated based on fuel consumption, operating data, and standard emission factor.
- d. The Permittee shall maintain records of NO_x, CO and SO₂ emissions from each raw mill, tons/month and tons/year.
- e. The Permittee shall maintain all information (including all reports and notifications) required by this permit readily available for inspection by Illinois EPA. The files shall be retained for at least five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

1.10 Reporting Requirements

- a. The Permittee shall fulfill all applicable notification and reporting requirements of 40 CFR 63 Subpart LLL.
- b. The Permittee shall promptly notify the Illinois EPA, of noncompliance with permit requirements as follows. The report shall describe the probable cause of such deviation, and any corrective actions or preventative measures taken.
 - i. Noncompliance with 40 CFR 63.1347 shall be reported as specified by 40 CFR 63 Subpart LLL.
 - ii. Other noncompliance shall be reported within 30 days.
- c. Two copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
2009 Mall Street
Collinsville, Illinois 62234

2.0 The Permittee may operate the altered raw mills pursuant to this permit until the revised CAAPP permit for the source is issued.

If you have any questions on this, please call Minesh Patel at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:MVP:psj

cc: Region 3